

**PATENT DRAWING REVIEW NOTICE**  
(Under 37 CFR 1.84 and 1.152)

The drawing(s), filed on 10/30/03, are objected by the USPTO Drawing Standard.

<p><b>1) Drawings. 1.84(a):</b> Acceptable categories of drawings: Black ink or Color (3 sets required). <input type="checkbox"/> Color drawings are not acceptable until petition is granted. Fig(s) _____ <input type="checkbox"/> Pencil and non black not permitted. Fig(s) _____</p> <p><b>2) Photographs. 1.84(b):</b> <input type="checkbox"/> One (1) full tone set is required. Fig(s) _____ <input type="checkbox"/> Photographs may not be mounted. 1.84(e). <input type="checkbox"/> Photographs must meet paper size requirements of 1.84(f). Fig(s) _____</p> <p><b>3) Type of paper. 1.84(e):</b> <input type="checkbox"/> Paper not flexible, strong, white and durable. Fig(s) _____ <input type="checkbox"/> Erasures, alterations, over writings, interlineations, folds, copy machine marks not not accepted. Fig(s) _____</p> <p><b>4) Size of paper. 1.84(f):</b> Acceptable sizes: 21.0 cm by 29.7 cm (DIN size A4) 21.6 cm by 27.9 cm (8 1/2 x 11 inches) <input type="checkbox"/> All drawing sheets not the same size. Sheet(s) _____ <input type="checkbox"/> Drawing sheets not an acceptable size. Fig(s) _____</p> <p><b>5) Margins. 1.84(g):</b> Acceptable margins: Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm <input type="checkbox"/> Margins not acceptable: Fig(s) _____ <input type="checkbox"/> Top (T) <input type="checkbox"/> Left (L) <input type="checkbox"/> Right (R) <input type="checkbox"/> Bottom (B)</p> <p><b>6) Views. 1.84(h)</b> REMINDER: Specification may require revision to Correspond to drawing changes, e.g., if Fig. 1 is changed to Fig. 1A, Fig. 1B, and Fig. 1C, etc., the specification, at the Brief Description of the Drawings, must likewise be changed. <input type="checkbox"/> View not labeled separately or properly. Fig(s) _____</p> <p><b>7) Sectional views. 1.84(h)(3):</b> <input type="checkbox"/> Sectional designation should be noted with Arabic or Roman numbers. Fig(s) _____</p>	<p><b>8) Arrangement of views. 1.84(i):</b> <input type="checkbox"/> Words do not appear on a horizontal, left-to-right fashion when page is either upright or turned so that the top becomes the right side, except for graphs. Fig(s) _____</p> <p><b>9) Scale. 1.84(k):</b> <input type="checkbox"/> Scale not large enough to show mechanism without crowding when drawing is reduced in size to two-thirds in reproduction. Fig(s) _____</p> <p><b>10) Character of lines, numbers &amp; letters. 1.84(l):</b> <input checked="" type="checkbox"/> Lines, numbers and letters not uniformly thick and well defined, clean, durable and black (poor) line quality. Fig(s) 1A - 7</p> <p><b>11) Shading. 1.84(m):</b> <input type="checkbox"/> Solid black areas pale. Fig(s) _____ <input type="checkbox"/> Solid black shading not permitted. Fig(s) _____</p> <p><b>12) Numbers, letters, &amp; reference characters. 1.84(p):</b> <input checked="" type="checkbox"/> Numbers and reference characters not plain and legible. Fig(s) 1A - 7 <input type="checkbox"/> Figure legends are poor. Fig(s) _____ <input type="checkbox"/> Numbers and reference characters not oriented in the same direction as the view. 1.84(p)(1). Fig(s) _____ <input type="checkbox"/> English alphabet not used. 1.84(p)(2). Fig(s) _____ <input checked="" type="checkbox"/> Numbers, letters and reference characters must be at least .32 cm (1/8 inch) in height. 1.84(p)(3). Fig(s) 1A - 7</p> <p><b>13) Lead lines. 1.84(q):</b> <input type="checkbox"/> Lead lines missing. Fig(s) _____</p> <p><b>14) Numbering of sheets of drawings. 1.84(t):</b> <input type="checkbox"/> Sheets not numbered consecutively, and in Arabic numbers beginning with number 1. Fig(s) _____</p> <p><b>15) Numbering of views. 1.84(p)(u):</b> <input type="checkbox"/> Views not numbered consecutively, and in Arabic numerals, beginning with number 1. Fig(s) _____</p> <p><b>16) Design drawings. 1.152</b> <input type="checkbox"/> Surface shading shown not appropriate. Fig(s) _____ <input type="checkbox"/> Solid black surface shading is not permitted except when used to represent the color black as well as color contrast. Fig(s) _____</p>
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**COMMENTS:**

Reviewer: Wm J. Sale  
If you have questions, call at 703.305.8404

Date: 3/4/2004  
Attachment Paper No: